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IDEA-0333-71
Copy ___ of ___

27 September 1971

MEMORANDUM FOR: Deputy for Operations, OSA
THROUGH : Chief, SAS/O/OSA
SUBJECT : Program Progress Report

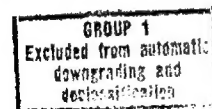
Attached is the Program Progress Report on the
Aero Medical and Life Support Activities for the period
1 July 1971 through 30 September 1971.


Chief, Aero Medical Staff
Office of Special Activities

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AERO MEDICAL AND LIFE SUPPORT ACTIVITIES

1 July 1971 thru 30 September 1971

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A. Medical Activities

1. There have been no serious medical nor surgical illnesses in local or field personnel during this quarter.

2. [REDACTED], USAF, has replaced Lt. Col. Robert Self as Senior Flight Surgeon and Director of Life Support at Edwards AFB. [REDACTED] is a fighter pilot who opted to study medicine after the Korean Conflict in which he participated. We are most fortunate to have him aboard.

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3. [REDACTED] has been in charge of Personal Equipment since the inception of the IDEALIST program in 1956. He certainly is one of the most knowledgeable regarding high-altitude protective equipment. He has retired and accepted Contract status with the Agency at Edwards AFB.

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4. There is only one medical technician stationed at [REDACTED]. Over the last year, with increasing flying activity, it is apparent that he cannot be

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25X1A present during all flying hours. (His family lives
25X1A in [REDACTED] will visit
[REDACTED] and it is possible that a new
slot for a second medic will have to be found.

25X1C 5. We have been endeavoring to secure a replace-
ment for the [REDACTED] Flight Surgeon at [REDACTED] for 25X1A
the past year. One recently was nominated but
during security processing, it developed he had
strong feeling about serving in Intelligence activ-
25X1C ities. [REDACTED] in October 1971
and his successor will have to come to the States
for orientation and training. We shall probably
have to send an Edwards' or Headquarters' Medic
TDY to cover during this interval.

25X1A 6. [REDACTED] attended the European Meeting of
the International College of Surgeons in Hamburg,
Germany in August, 1971.

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B. LIFE-SUPPORT EQUIPMENT

1. Six-Line Release

The test program covering Engineering Change Proposal, ECP U2R-61, concerning control of personnel parachutes has been completed. No structural degradation of the RQ 225 parachute was observed, however, subjective critiques by individual experimental parachutists indicated that ability to gain directional control was quite fatiguing. A final report is expected in early fall.

2. S1010 PPA Design Study

A design study has been initiated to determine the feasibility of improving the current active Full-Pressure Suit Pilot's Protective Assemblies (S1010, S901J, and A/P 22S-6). Included in the purpose is the objective to determine the degree of multi-mission capability which might be achieved with a single basic protective assembly using interchangeable components. The primary effort initially will be in the helmet improvement area at a Fixed Price Level-of-Effort Contract.

3. Low-Flight Regulator Relocation

Relocation of the low-flight breathing regulator from the vest pocket of the low-flight harness to the right shoulder strap was accomplished during this quarter. Repositioning was done to provide the pilot the privilege of breathing underwater upside down in the event of emergency egress. Tests during "Dilbert Dunker" training in June 1971 dramatically demonstrated that the previous regulator location would not allow enough pressure for oxygen delivery to the mask when the crewmember was upside down underwater.

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4. Allowable Leak Tolerance in the S1010 PPA

Some consideration is being given to increasing the allowable leak tolerance in the S1010 Full Pressure suit. Present specifications allow a maximum bleed of 3400 cc/minute. By increasing the total allowable leak, costly maintenance changes of main entry zippers, etc. may be reduced, still providing a safe, reliable pressure suit.

C. TRAINING

1. Physiological Training [REDACTED]

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Refresher Physiological Training was conducted on Kadena AFB, Okinawa, during the week of 9-16 July 1971. Support personnel from [REDACTED] on flying status and the [REDACTED] were given classroom lectures, and altitude chamber flights.

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2. Physiological Training - Detachment "G"

Physiological Training including classroom lectures, pressure-suit chamber flights, and explosive decompressions were accomplished on the [REDACTED] Both S1010 PPA's fit well and no comfort problems were encountered.

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3. Tropical and Seacoast Survival Training

During the week of 26 July 1971, Tropical and Seacoast Survival Training was conducted for [REDACTED]

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The new training area on the [REDACTED] was utilized for the tropical phase and [REDACTED] was used for the Seacoast Phase. During the following week, the new [REDACTED] and the [REDACTED] were given the same training. All students performed in an outstanding fashion during the training exercise.

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4. SAFE Meeting


attended the annual Survival and Flight Equipment (SAFE)
Association Meeting held in Las Vegas, Nevada, the
week of 27 September 1971.

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